BBA

Biomembranes

Vol. 1189, 1994

Cumulative Contents

Information for Contributors *vii*

Regular Papers

Reversal agent inhibition of the multidrug resistance pump in human leukemic lymphoblasts
P.W. Wigler and F.K. Patterson (USA) 1

Interconversion of bilayer phase transition temperatures between phosphatidylethanolamines and phosphatidylcholines
C. Huang, Z.-q. Wang, H.-n. Lin, E.E. Brumbaugh and S. Li (USA) 7

Bioadhesive, collagen-modified liposomes: molecular and cellular level studies on the kinetics of drug release and on binding to cell monolayers
N. Yerushalmi and R. Margalit (Israel) 13

The effects of PMA and TFP and alterations in intracellular pH and calcium concentration on the membrane associations of phospholipid-binding proteins fodrin, protein kinase C and annexin II in cultured MDCK cells
J. Vääräniemi, V. Huotari, V.-P. Lehto and S. Eskelinen (Finland) 21

Cell-free transfer of phospholipids between the endoplasmic reticulum and the Golgi apparatus of leek seedlings
B. Sturbois, P. Moreau, L. Maneta-Peyret, D.J. Morré and C. Cassagne (France, USA) 31

The solute permeability of thylakoid membranes is reduced by low concentrations of trehalose as a co-solute
I. Bakaltcheva, W.P. Williams, J.M. Schmitt and D.K. Hincha (Germany, UK) 38

Steady-state fluorescence studies on lipase-vesicle interactions
E.W.J. Mosmuller, E.H.W. Pap, A.J.W.G. Visser and J.F.J. Engbersen (Netherlands) 45

Mechanistic studies of sterol carrier protein-2 effects on L-cell fibroblast plasma membrane sterol domains
J.K. Woodford, I. Hapala, J.R. Jefferson, J.J. Knittel, J. Kavecansky, D. Powell, T.J. Scallen and F. Schroeder (USA, Mexico) 52

Transfer of pyrene-labelled diacyl-, alkylacyl-, and alkenylacyl-glycerophospholipids from vesicles to human blood platelets
E. Malle, E. Schwengerer, F. Paltauf and A. Hermetter (Germany, Austria) 61

The reconstituted carnitine carrier from rat liver mitochondria: evidence for a transport mechanism different from that of the other mitochondrial translocators
C. Indiveri, A. Tonazzi and F. Palmieri (Italy) 65

Interaction of papaverine with micelles of surfactants with different charge studied by ^{1}H-NMR
V.E. Yushmanov, J.R. Perussi, H. Imasato and M. Tabak (Brazil, Russia) 74

Human intestinal cell line Caco-2: a useful model for studying cellular and molecular regulation of biotin uptake
T.Y. Ma, D.L. Dyer and H.M. Said (USA) 81

Adsorption of Ca^{2+} and La^{3+} to bilayer membranes: measurement of the adsorption enthalpy and binding constant with titration calorimetry
R. Lehrmann and J. Seelig (Switzerland) 89

Asymmetric black membranes formed by one monolayer of bipolar lipids at the air/water interface
A. Gliozzi, M. Robello, A. Relini and G. Accardo (Italy) 96

Lipid unsaturation influences melittin-induced leakage of vesicles
N.K. Subbarao and R.C. MacDonald (USA) 101

Short Sequence-Paper

Nucleotide sequence of a cDNA for the β2 subunit isoform of Na^+,K^+-ATPase from human retina
N. Hernando, P. Martin-Vasallo, S. Ghosh, P.K. Ghosh, A. Swaroop and M. Coca-Prados (USA) 109

Regular Papers

Binding and elution of EGTA to anion exchange columns: implications for study of (Ca + Mg)-ATPase inhibitors
D.R. Yingst and V.E. Barrett (USA) 113

Na^+–Ca^{2+},K^+ exchange in bovine retinal rod outer segments: quantitative characterization of normal and reversed mode
B. Huppertz and P.J. Bauer (Germany) 119

Localization of Na^+/K^+-ATPase in the bovine corneal endothelium
J.A. Guggenheim and S.A. Hodson (UK) 127

Chronic ethanol intoxication induces adaptive changes at the membrane protein/lipid interface
C. Ho, B.W. Williams, M.B. Kelly and C.D. Stubbs (USA) 135

Tertiary amines as antagonists of both the luminal and cytosolic K^+-site of gastric H,K-ATPase
H.G.P. Swarts, C.H.W. Klaassen, F.M.A.H. Schuurmans Stekhoven and J.J.H.H.M. De Pont (The Netherlands) 143

Protein endocytosis by a kidney tubule suspension: metabolic requirements
H. Simonnet, C. Gauthier, V. Gire and G. Baverel (France) 152

The cGMP-inhibitable phosphodiesterase modulates glucose transport activation by insulin
J.W. Eriksson, C. Wesslau and U. Smith (Sweden) 163

Binding of HDL to basolateral membranes of the renal cortex. Evidence for two components in the HDL-membrane association
C. Senault, D. Vacher, S. Sakr and A. Girard-Globa (France) 168

Real-time measurements of chemically-induced membrane fusion in cell monolayers, using a resonance energy transfer method
M.A. Partearroyo, E. Cabezón, J.-L. Nieva, A. Alonso and F.M. Goñi (Spain) 175

Proton ejection as a major feature of the Ca^{2+}-pump
A.G. Da Costa and V.M.C. Madeira (Portugal) 181

Phosphate, nitrendipine and valinomycin increase the Ca^{2+}/ATP coupling ratio of rat skeletal muscle sarcoplasmic reticulum Ca^{2+}-ATPase
T.J. Beeler and K.S. Gable (USA) 189

DNA transfection mediated by cationic liposomes containing lipopolylysine: characterization and mechanism of action
X. Zhou and L. Huang (USA) 195

Voltage gating of porins from *Haemophilus influenzae* type b
D. Dahan, V. Vachon, R. Laprade and J.W. Coulton (Canada) 204

External surface and lamellarity of lipid vesicles: a practice-oriented set of assay methods
H.J. Gruber and H. Schindler (Austria) 212

Effect of divalent cations on lipid organization of cardiolipin isolated from *Escherichia coli* strain AH930
J.A. Killian, M.C. Koorengevel, J.A. Bouwstra, G. Gooris, W. Dowhan and B. De Kruijff (The Netherlands, USA) 225

Do the long fatty acid chains of sphingolipids interdigitate across the center of a bilayer of shorter chain symmetric phospholipids?
J.M. Boggs and K.M. Koshy (Canada) 233

Rapid Report

Depth profiling of dibucaine in sarcoplasmic reticulum vesicles by fluorescence quenching
S.R.W. Louro, M. Tabak and O.R. Nascimento (Brazil) 243

Short Sequence-Paper

Cloning of the cDNA and the genomic DNA of the mouse angiotensin II type 2 receptor
T. Ichiki, C.L. Herold, Y. Kambayashi, S. Bardhan and T. Inagami (USA) 247

Cumulative Contents, Vol. 1189 251

Author Index 253